

Proving Independence from Conditional Probability

Two events are independent iff

$$P(A) = P(A|B) \quad \underline{\text{and}} \quad P(B) = P(B|A).$$

Altholton v. Reservoir

		AHS	RHS	Total
Are you looking forward to HS?	Yes	27	9	36
	No	3	0	3
	Sort-of	6	3	9
	Total	36	12	48

Are the events "AHS" and "Yes, looking forward to HS" independent? Prove ~~your~~ ^{your} result.